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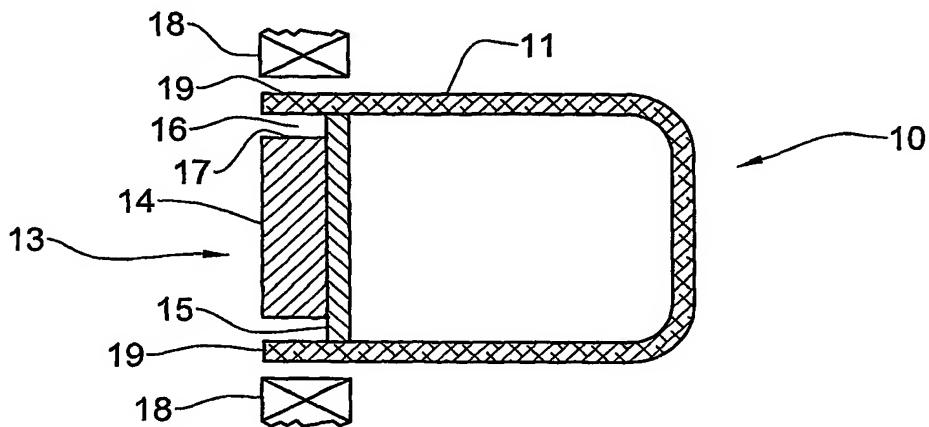
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(54) Title: MAGNETIC PULSE WELDING METHOD AND APPARATUS FOR SEALING A VESSEL AND A SEALED VESSEL



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(57) Abstract: A pulsed magnetic welding method and a welding induction coil for sealing a vessel (10) are provided. The method includes providing a vessel's body (11) having an open end (12) a cover (13) including a welding part and a brim part (15). A diameter of the cover (13) at the welding part (14) is less than the diameter of the vessel's body (11) for providing an air gap (16) between the vessel's body (11) and the welding part (14). The cover (13) is placed within said open end (12) of the vessel's body (11). A welding induction coil (18) is provided around the vessel's body (11) at the place where the welding part (14) of the cover (13) is located. The welding induction coil (18) is energized to generate a pulsed magnetic force sufficient to cause bending a portion (19) of the vessel's body (11) in a radially inward direction around the cover (13) in the air gap (16). The pulsed magnetic force has such a value so to provide mutual diffusion of atoms of the vessel's body (11) and the cover (13) at their impact, thereby to weld the vessel's body (11) and the cover (13) to each other.